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## (54) COMMUNICATION SYSTEM AND TRANSMITTER AND RECEIVER USED FOR THE SYSTEM

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain the communication system in which a signal is sent more surely in the communication system such as a radio LAN by utilizing the property that a signal spread by using a spread code is extracted or eliminated when the spread code is known in the spread spectrum system, receiving a signal simultaneously when the signal is transmitted and conducting the processing such as elimination of the signal being in existence in a received signal, which is sent by itself.

**SOLUTION:** A data transmission processing system A multiplies a spread code with a modulation signal to spread a spectrum and sends the result to a transmission line. A collision detection processing system B receives a signal simultaneously when the signal is sent, a signal elimination section 9 eliminates the signal being in existence in the reception signal which is sent by itself and a collision discrimination section 10 discriminates whether or not a signal from other terminal equipment is sent to the transmission line and whether or not signal collision is in existence.

